

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-6 (Cancelled)

7. (Currently Amended) A packaging filling apparatus in which a web-form packaging material having a laminated structure and a conductive layer adjacent to a sealing property thermoplastic layer, is longitudinally sealed to be formed into a tubular shape and a fluid product is filled in the tube, the package filling apparatus comprising:

a transversal sealing apparatus which performs, at longitudinally spaced apart locations on the tube, transversal sealing in a transversal direction of the tube to form transversal sealing bands on the tube;

a cutting apparatus which cuts the tube in the transversal sealing bands to produce a first forming body which is subsequently formed into a packaging filling container of a final configuration;

the transversal sealing apparatus comprising a high-frequency oscillator, a controller connected to the high-frequency oscillator, an inductor connected to the high-frequency oscillator and receiving output from the high-frequency oscillator to generate a magnetic field in the packaging material, and a sealing quality control means transmitting a control signal to the controller based on a statistical relation between a plurality of different effect factors affecting quality of

the transversal sealing and the quality of the transversal sealing, the controller controlling the high-frequency oscillator based on the control signal from the sealing quality control means; and

the effect factors affecting the quality of the transversal sealing comprise effect factors A which include a moisture percentage contained in the web-like packaging material, with or without a laminated metal evaporated film, temperature of the fluid product filled therein, characteristics of the sealing thermoplastic layer of the web-like packaging material and thickness of the conductive layer, as well as effect factors B which include an amount of energy output from the high-frequency oscillator and output impedance from the high-frequency oscillator.

8. (Canceled)

9. (Canceled)

10. (Previously Presented) The packaging filling apparatus according to claim 7, further comprising a detector and/or input means connected to the transversal sealing apparatus for providing the plurality of different effect factors.

11. (Currently Amended) A transversal sealing apparatus for a packaging filling apparatus in which a web-form packaging material having a laminated structure and a conductive layer adjacent to a sealing property thermoplastic layer is longitudinally sealed to be formed into a tubular shape, and a fluid product is filled in the tube, the transversal sealing apparatus comprising:

a high-frequency oscillator;

an inductor connected to the high-frequency oscillator and receiving output from the high-frequency oscillator to generate a magnetic field in the packaging material to perform transversal sealing of the tube producing a transverse sealing band in the tube;

a controller connected to the high-frequency oscillator; and

sealing quality control means connected to the controller to transmit a control signal to the controller based on a statistical relation between a plurality of different effect factors affecting quality of the transversal sealing and the quality of the transversal sealing, the controller controlling the high-frequency oscillator based on the control signal from the sealing quality control means; and

the effect factors affecting the quality of the transversal sealing comprise effect factors A which include a moisture percentage contained in the web-like packaging material, with or without a laminated metal evaporated film, temperature of the fluid product filled therein, characteristics of the sealing thermoplastic layer of the web-like packaging material and thickness of the conductive layer, as well as effect factors B which include an amount of energy output from the high-frequency oscillator and output impedance from the high-frequency oscillator.

12. (Canceled)

13. (Canceled)

14. (Previously Presented) The transversal sealing apparatus according to claim 11, further comprising a detector and/or input means connected to the transversal sealing apparatus for providing the plurality of different effect factors.